

Title (en)

NOISE REDUCING DEVICE, AND JET PROPULSION SYSTEM

Title (de)

GERÄUSCHMINDERUNGSVORRICHTUNG UND STRAHLANTRIEBSSYSTEM

Title (fr)

DISPOSITIF DE RÉDUCTION DE BRUIT ET SYSTÈME DE PROPULSION PAR RÉACTION

Publication

**EP 2256327 B1 20190904 (EN)**

Application

**EP 09715023 A 20090225**

Priority

- JP 2009053386 W 20090225
- JP 2008042656 A 20080225

Abstract (en)

[origin: EP2256327A1] A noise reducing device in a jet engine that has a cylindrical casing, a cylindrical partition wall that is inserted in the casing while protruding partially from a trailing edge of the casing, and a compressor that compresses air that is taken into the cylindrical partition wall, with the inside of the cylindrical partition wall serving as a duct in which a core stream of high-speed air flows, and the space between the cylindrical partition wall and the casing serving as a duct in which a bypass stream of low-speed air flows, and being connected with a wing of an airplane by a pylon that has a projection portion that extends beyond the casing to the downstream of the core stream and the bypass stream, the noise reducing device includes a nozzle, disposed at the pylon on the downstream of the core stream, that injects a fluid toward a noise generation source that is produced from the mutual approach of an ambient air stream that is produced outside of the bypass stream and the core stream.

IPC 8 full level

**F02K 1/34** (2006.01); **B64C 7/02** (2006.01); **B64D 27/18** (2006.01); **B64D 29/04** (2006.01); **F02K 1/00** (2006.01); **F02K 1/44** (2006.01); **F02K 1/46** (2006.01); **F02K 3/06** (2006.01)

CPC (source: EP US)

**B64C 7/02** (2013.01 - EP US); **B64D 27/18** (2013.01 - EP US); **F02K 1/34** (2013.01 - EP US); **F02K 1/44** (2013.01 - EP US); **F02K 1/46** (2013.01 - EP US); **F02K 3/06** (2013.01 - EP US); **F05D 2260/96** (2013.01 - EP US)

Citation (examination)

- WO 2008100712 A2 20080821 - BOEING CO [US], et al
- FR 2901321 A1 20071123 - AIRCELLE SA [FR]
- EP 1418331 A2 20040512 - ROLLS ROYCE PLC [GB]

Cited by

US2012228054A1; US8813907B2; FR3016411A1

Designated contracting state (EPC)

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**EP 2256327 A1 20101201**; **EP 2256327 A4 20120516**; **EP 2256327 B1 20190904**; JP 4862961 B2 20120125; JP WO2009107646 A1 20110707; US 2011000181 A1 20110106; US 8904795 B2 20141209; WO 2009107646 A1 20090903

DOCDB simple family (application)

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